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# WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.



#### TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

#### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82601

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#### PUBLISHED BY OTHER AGENCIES.

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P O Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

# WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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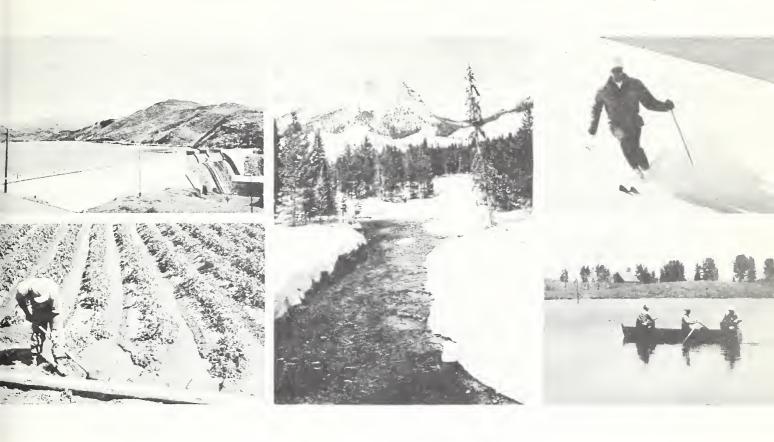
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#### WATER SUPPLY OUTLOOK for IDAHO



#### GENERAL SUMMARY FOR FEBRUARY 1, 1970

Snowfall during January was extremely heavy even in the northern portion of the state where the winter prior to January was relatively light. The water supply outlook in general at this time is for slightly below normal flows in northern Idaho and well above in the southern half of the state. Snow cover now varies from 62% of normal on the Kootenai River to 190% on Goose and Trapper Creeks south of Burley.

The storms during January produced unusually heavy snow. Hemlock Butte on the Clearwater River received almost two feet of snow-water in over six feet of snow that fell. In the southern part of the state, Trinity Mountain on the Boise River also received 23.6 inches of snow-water in January. This pattern was general throughout the state at the high elevations.

Valley precipitation was equally high in relation to normal. Many stations were reporting over 200%. Deadwood Dam received 11.97 inches of rain in January, Idaho City 10.74, and stations spotted throughout the state followed the same pattern.

Soil moisture conditions improved dramatically during January because of snowmelt at lower elevations and the heavy rains that occurred. Near the tops of the mountains throughout the state, soil moisture is still below normal, but on all drainages at the lower mountain elevations and in the valleys, soil moisture is well above normal or saturated.

The saturated soils at the valley elevations and in the foothills can pose a problem if cold weather occurs between now and spring. These saturated soils will become highly impermeable if they freeze to a depth of more than one inch. If these soils freeze before more snowfall or rain occurs, extremely fast and heavy runoff could occur from either snowmelt or a combination of snowmelt and rain. This possibility exists on Willow Creek - Sand Creek above Idaho Falls, the Portneuf River, Rock Creek south of American Falls, on the foothills north of Mountain Home and on the Boise Front above the City of Boise. Special observations will be made on these watersheds to determine the depth of frost if it should occur.

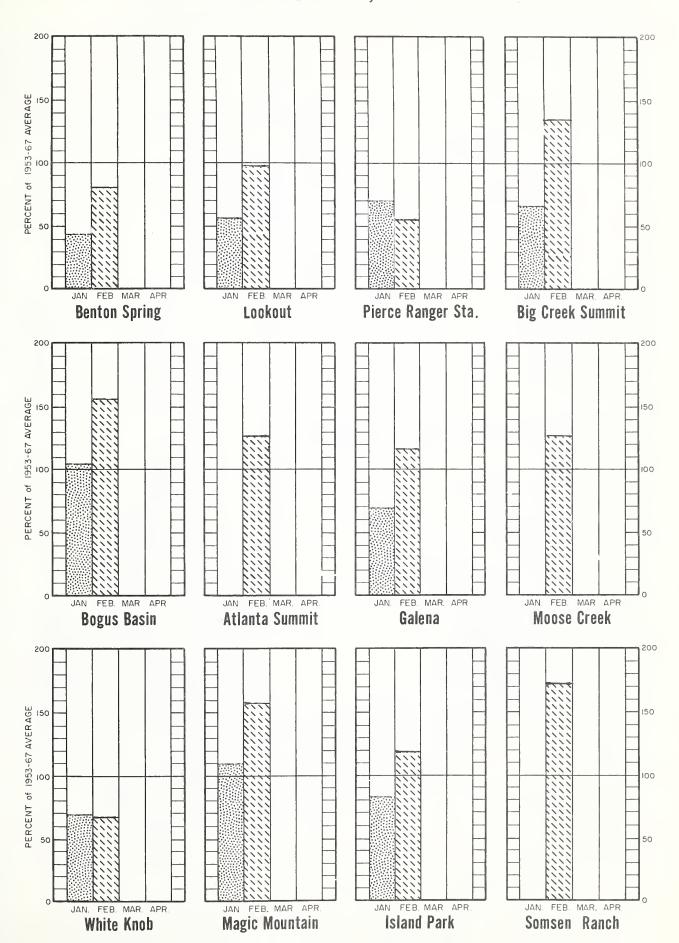
Reservoir stored water is excellent throughout the state and streamflow was well above normal for the month of January.

On the average, about two-thirds of the total year's snowpack is down by February 1st, leaving about one-third of the year's total accumulation yet to come.

#### SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

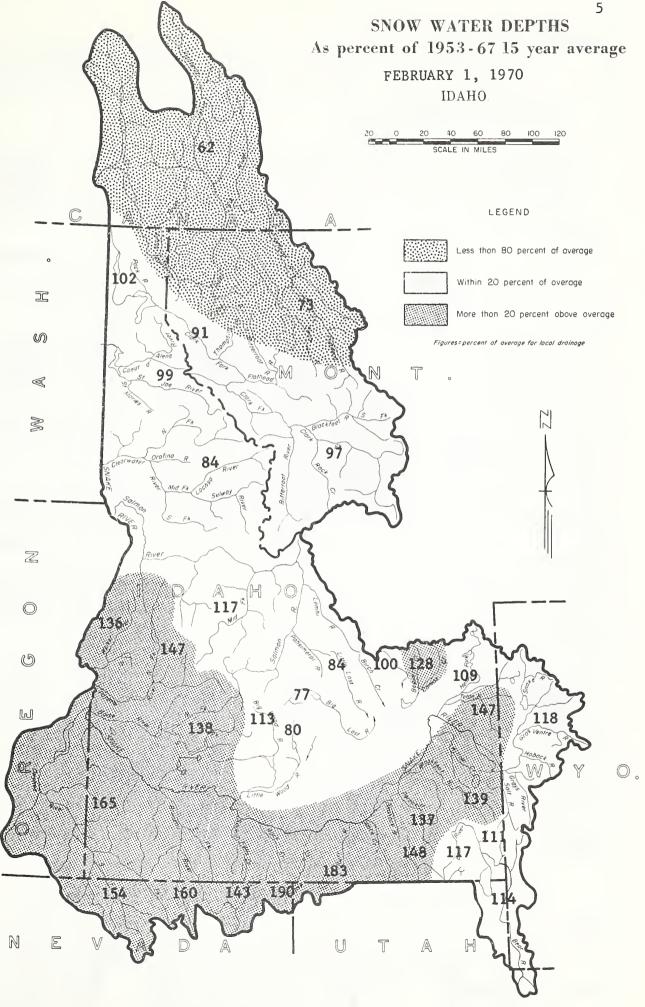
As Compared To 1953-67 15 Yr. Average

FEBRUARY 1, 1970



#### COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED		S SNOW WATER  AS PERCENT OF:  1953-67 AVERAGE
UPPER COLUMBIA RIVER BASIN			
Kootenai River Pend Oreille River Clark Fork River Flathead River Priest River Spokane River	7 15 12 3 2-4 3	60 62 68 57 59	62 91 97 73 102 99
LOWER SNAKE RIVER BASIN			
Palouse River Clearwater River Salmon River Lemhi River	4-5 7 <b>-</b> 36 11-12 7	55 70 76 65	100 84 117
MIDDLE SNAKE RIVER BASIN - Northside			
Little Lost River Big Lost River Little Wood River Big Wood River Boise River Payette River Weiser River	5 3 3 6 9-10 8 1	45 28 34 61 78 90 93	84 77 80 113 138 147 136
MIDDLE SNAKE RIVER BASIN - Southside			
Raft River Goose-Trapper Creeks Salmon Falls Creek Bruneau River Owyhee River Jordan Creek	2 1 8-9 4 5 4	123 139 100 86 67 69	183 190 143 160 154 165
UPPER SNAKE RIVER BASIN			
Upper Snake - Wyoming Camas-Beaver Creeks Medicine Lodge Creek Henrys Fork River Teton River Blackfoot River Portneuf River	20 2 2 10-12 2-3 4 3-8	55 46 70 111 103 82	118 128 100 109 147 139 137
GREAT BASIN			
Bear River Montpelier Creek Mink Creek Cub River Malad River	18 4-6 4 2 2-4	89 96 97 108 91	114 111 117 107 148

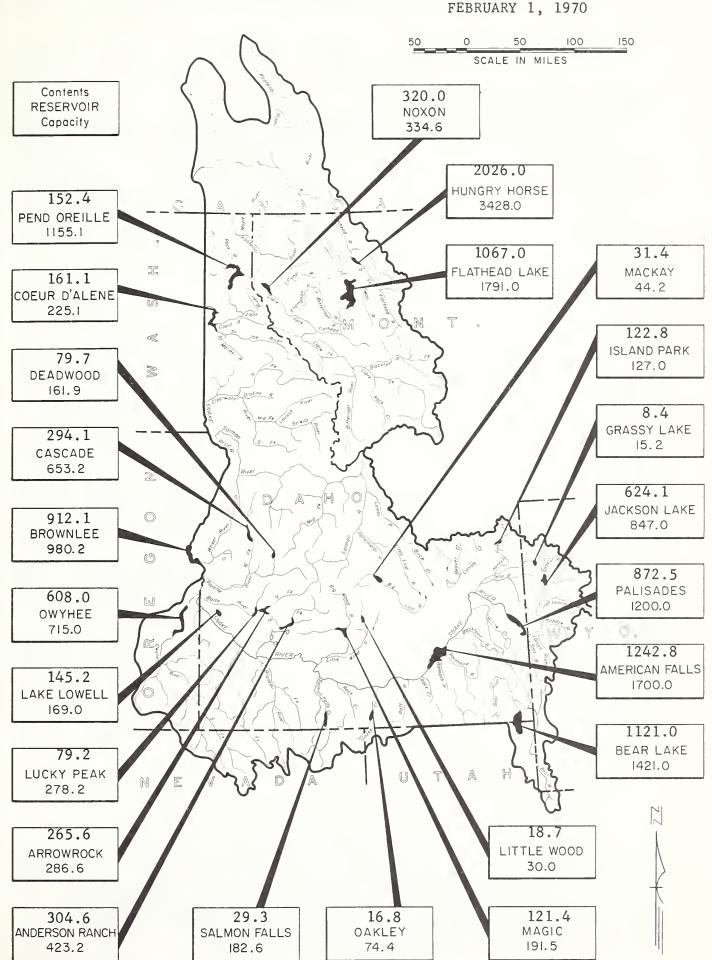


RESERVOIR STORAGE (1,000 Ac. Ft.)

UPPER COLUMBIA BASIN   Clark Fork - Pend Oreille   Hungry Horse   1791.0   1067.0   1184.0   I Pend Oreille   1155.1   152.4   185.4   Noxon   334.6   320.0   322.2   Spokane   Coeur d'Alene   225.1   161.1   120.7     SNAKE BASIN   Snake   BASIN   Snake   BASIN   Snake   1200.0   872.5   1040.1   642.6   Palisades   1200.0   872.5   1040.1   673.5   1040.1   673.5   67	
Clark Fork - Pend Oreille   Hungry Horse   3428.0   2026.0   2902.0   2902.0   184.0   1791.0   1067.0   1184.0   1   1155.1   152.4   185.4	-67 AVERAG
Clark Fork - Pend Oreille   Hungry Horse   3428.0   2026.0   2902.0   2902.0   184.0   1791.0   1067.0   1184.0   1   1155.1   152.4   185.4	
Hungry Horse   3428.0   2026.0   2902.0   20   20   20   20   20   20   20	
Flathead   1791.0   1067.0   1184.0   1     Pend Oreille   334.6   320.0   322.2     Spokane   Coeur d'Alene   225.1   161.1   120.7     SNAKE BASIN	
Pend Oreille	174.09
Noxon	186.0
Spokane	10.0
Snake	320.24
SNAKE BASIN   Snake   S47.0   624.1   642.6   Falisades   1200.0   872.5   1040.1   642.6   Falisades   1200.0   872.5   1040.1   642.6   64	
Snake	123.4
Sackson Lake	
Palisades       1200.0       872.5       1040.1	
American Falls	40.2
Island Park       127.0       122.8       108.7         Grassy Lake       15.2       8.4       9.8         Brownlee       980.2       912.1       765.6         Goose-Trapper Creeks       74.4       16.8       13.4         Salmon Falls Creek       3almon Falls       182.6       29.3       17.1         Big Lost       44.2       31.4       35.0         Mackay       44.2       31.4       35.0         Big Wood       44.2       31.4       62.8         Little Wood       191.5       121.4       62.8         Little Wood       30.0       18.7       17.4         Fish Creek       70.2       5.3         Carey Valley       14.4       8.2       5.3         Boise       40.2       304.6       187.5         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3	73.24
State   15.2   8.4   9.8	241.1
Brownlee	97.5
Goose-Trapper Creeks         74.4         16.8         13.4           Salmon Falls Creek         182.6         29.3         17.1           Big Lost Mackay         44.2         31.4         35.0           Big Wood Magic Little Wood Little Wood Little Wood Carey Valley         191.5         121.4         62.8           Little Wood Alley Carey Valley         14.4         8.2         5.3           Boise Anderson Ranch Arrowrock Lucky Peak Lucky Peak Lake Lowell (Deer Flat)         286.6         265.6         275.4           Lucky Peak Cascade Owyhee Owyhee Owyhee Owyhee Owyhee Owyhee Owyhee Cascade Deadwood Deadwood Cascade Deadwood Deadwo	10.5
Oakley       74.4       16.8       13.4         Salmon Falls Creek       182.6       29.3       17.1         Big Lost Mackay       44.2       31.4       35.0         Big Wood Magic       191.5       121.4       62.8         Little Wood Little Wood Little Wood Carey Valley       30.0       18.7       17.4         Fish Creek Carey Valley       14.4       8.2       5.3         Boise Anderson Ranch Arrowrock Lucky Peak Lake Lowell (Deer Flat)       286.6       265.6       275.4         Lucky Peak Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee Owyhee Owyhee Cascade Deadwood Deadwood Licky Peak Lake Lowell (Deer Flat)       294.1       368.1         Deadwood Deadwood Licky Peak Lake Lowell (Deer Flat) Peak Lake Lowell (Deer Flat)       294.1       368.1	39.8
Oakley       74.4       16.8       13.4         Salmon Falls Creek       182.6       29.3       17.1         Big Lost Mackay       44.2       31.4       35.0         Big Wood Magic       191.5       121.4       62.8         Little Wood Little Wood Carey Valley       30.0       18.7       17.4         Fish Creek Carey Valley       14.4       8.2       5.3         Boise Anderson Ranch Arrowrock Lucky Peak Lake Lowell (Deer Flat)       286.6       265.6       275.4         Lucky Peak Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee Owyhee Owyhee Cascade Deadwood Deadwood Licky Peak Lake Lowell (Deer Flat)       294.1       368.1         Deadwood Licky Peak Lake Lowell (Deer Flat) Peak Lake Lowell (Deer Flat)       294.1       368.1         Deadwood Licky Peak Lake Lowell (Deer Flat) Peak Lake Lowell (Deer Flat) Peak Lake Lowell (Deer Flat)       294.1       368.1	
Salmon Falls       182.6       29.3       17.1         Big Lost       44.2       31.4       35.0         Big Wood       191.5       121.4       62.8         Little Wood       30.0       18.7       17.4         Fish Creek       20.0       18.7       17.4         Carey Valley       14.4       8.2       5.3         Boise       Anderson Ranch       423.2       304.6       187.5         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	13.5
Big Lost Mackay       44.2       31.4       35.0         Big Wood Magic       191.5       121.4       62.8         Little Wood Little Wood       30.0       18.7       17.4         Fish Creek Carey Valley       14.4       8.2       5.3         Boise Anderson Ranch Arrowrock Lucky Peak Lucky Peak Lake Lowell (Deer Flat)       286.6       265.6       275.4         Lucky Peak Owyhee       278.2       79.2       54.9         145.2       137.2       137.2         Owyhee       715.0       608.0       306.8         Payette Cascade Deadwood       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3	
Mackay       44.2       31.4       35.0         Big Wood       191.5       121.4       62.8         Little Wood       30.0       18.7       17.4         Fish Creek       200.0       18.7       17.4         Carey Valley       14.4       8.2       5.3         Boise       14.4       8.2       5.3         Anderson Ranch       423.2       304.6       187.5         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	22.7
Mackay       44.2       31.4       35.0         Big Wood       191.5       121.4       62.8         Little Wood       30.0       18.7       17.4         Fish Creek       200.0       18.7       17.4         Carey Valley       14.4       8.2       5.3         Boise       14.4       8.2       5.3         Anderson Ranch       423.2       304.6       187.5         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	
Magic       191.5       121.4       62.8         Little Wood       30.0       18.7       17.4         Fish Creek       14.4       8.2       5.3         Carey Valley       14.4       8.2       5.3         Boise       26.6       26.6       275.4         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	28.9
Magic       191.5       121.4       62.8         Little Wood       30.0       18.7       17.4         Fish Creek       14.4       8.2       5.3         Carey Valley       14.4       8.2       5.3         Boise       26.6       26.6       275.4         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	
Little Wood       30.0       18.7       17.4         Fish Creek       14.4       8.2       5.3         Boise       286.6       265.6       275.4         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	91.5
Fish Creek         Carey Valley         14.4         8.2         5.3           Boise         Anderson Ranch         423.2         304.6         187.5           Arrowrock         286.6         265.6         275.4           Lucky Peak         278.2         79.2         54.9           Lake Lowell (Deer Flat)         169.0         145.2         137.2           Owyhee         715.0         608.0         306.8           Payette         653.2         294.1         368.1           Deadwood         161.9         79.7         76.3           Weiser	
Carey Valley       14.4       8.2       5.3         Boise       Anderson Ranch       423.2       304.6       187.5         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	10.5%
Boise       423.2       304.6       187.5         Arrowrock       286.6       265.6       275.4         Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	
Anderson Ranch Arrowrock Lucky Peak Lake Lowell (Deer Flat) Owyhee Owyhee Cascade Deadwood Weiser  Anderson Ranch 423.2 304.6 187.5 275.4 278.2 79.2 137.2 137.2 04.6 275.4 278.2 79.2 04.9 145.2 137.2 0608.0 306.8 294.1 368.1 368.1	
Arrowrock Lucky Peak Lake Lowell (Deer Flat)  Owyhee Owyhee Cascade Deadwood  Weiser  286.6 275.4 79.2 79.2 137.2 137.2 169.0 275.4 79.2 79.2 137.2 137.2 137.2 294.1 368.1 79.7 76.3	
Lucky Peak       278.2       79.2       54.9         Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	227.0
Lake Lowell (Deer Flat)       169.0       145.2       137.2         Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	227.7
Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser       79.7       76.3	L08.5
Owyhee       715.0       608.0       306.8         Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser       79.7       76.3	101.1
Payette       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	
Cascade       653.2       294.1       368.1         Deadwood       161.9       79.7       76.3         Weiser	359.3
Deadwood 161.9 79.7 76.3 Weiser	
Weiser	276.9
	69.1
Mann Creek 11.1 9.4 5.2	
GREAT BASIN	
Bear	
	354.0
	2
The Donated of December 1	
* Period of Record	

#### RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)



<sup>(</sup>c) Assuming normal meteorological conditions.

1/ Observed flow corrected for storage in Coeur d'Alene Lake. 2/ Corrected for storage in Jackson Lake and Palisades. 3/ Observed flow corrected for storage in Mackay Reservoir. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Cascade and Deadwood Reservoirs. 6/ U.S.B.R. records of inflow.

# VALLEY PRECIPITATION $\underline{1}/$ Division Averages and Departures

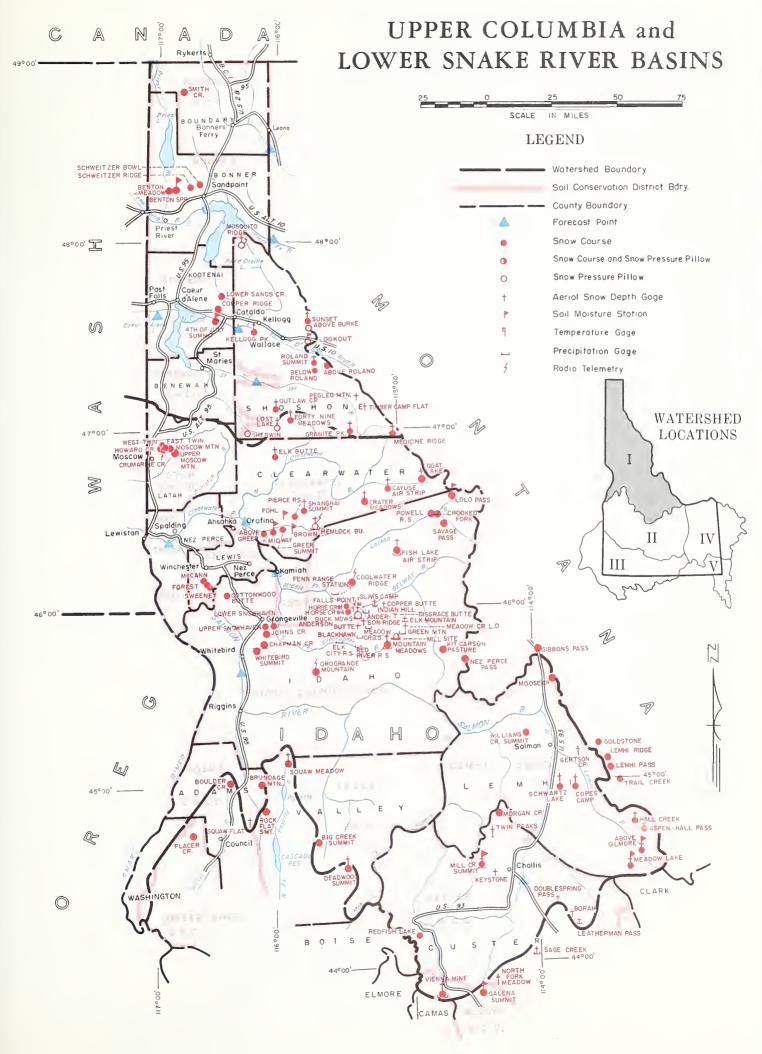
In Inches

	Win	ter	Fall				
DRA INAGE	Januar	y - 1970	Nov. 6	9 - Jan. 70			
DIVISIONS	Observed	Departure <u>2</u> /	Observed	Departure <u>2</u> /			
Kootenai, Canada & U. S.	3.82	+0.23	7.48	-2.44			
Flathead	3.66	+1.23	5.64	-1.21			
Clark Fork	1.98	+0.88	2.90	-0.16			
Pend Oreille-Spokane	6.63	+2.23	11.13	-1.34			
Upper Snake	4.62	+2.27	7.67	+1.22			
Snake River Plain	2.41	+1.46	4.41	+1.58			
Salmon-Payette-Boise	6.52	+3.69	10.11	+2.57			
Clearwater	6.04	+2.84	9.53	+0.54			
Southeastern Oregon	3.26	+2.04	5.34	+1.91			

<sup>1/</sup> Preliminary analysis by U. S. Weather Bureau from data furnished by Meterological Service of Canada and U. S. Weather Bureau.

<sup>2/</sup> Departure from 15-year (1953-67) drainage division average.





#### INDEX to SNOW COURSES

							10 11	C CTATE	NAME	550	T#5		
NO.	•	STATE NAME	SEC.	OR -	LONG.		N	IO. STATE	NAME	SEC.	- OR AND	LONG	ELEV,
		HDDED COLUMD		TAT					CLEARWATER RIVER				
		UPPER COLUMB	OIA DAS	2117			16	6C11 I	CLEARWATER RIVER Above Greer	14	35N	2E	1240
		KOOTENAI RIVER					1.5	5D7a I	Anderson Butte	34 35	30N 30N	9E 9E	6800
16AL	I	Smith Creek	29	64N	3W	4800	1	5D9p I	Anderson Ridge Blackhawk	31	29N	10 E	5400 6080
		DE	CT D11/FD					6C14m I 5D5MAP I	Brown Buck Meadows	11 26	35N 31N	3E 8E	3100 5600
16A2	т	PEND OREILLE - PRIE Benton Meadow	ST RIVER	58N	4W	2344	15	5C3A I	Cayuse Airstrip	4	38N	11E	3700
16A3M	I	Benton Spring	30	58N	3 W	4900		5C7R I 5D1 <b>0</b> a I	Coolwater Mountain Copper Butte	32 35	33N 31N	8E 10E	6200 6000
16A6 16A5	I	Schweitzer Bowl Schweitzer Ridge	20 19	58 N 58 N	2W 2W	4500 6100		5C16 I 5C9A I	Cottonwood Butte Crater Meadows	33 2	32N 37	1 W 9 E	5140 6100
		Ç					14	4C10 I	Crooked Fork	27	37N	14E	3800
15000		SPOKANE RIVER Above Burke	11	48N	5 E	4100	- 1	5D11a I 5C15A I	Disgrace Butte Elk Butte	26 6	30 N 40 N	10 E 3 E	6600 5550
15B8s 15B7	I	Above Roland	35	47N	6 E	4350		5D12p I 5D13ap I	Elk City Rgr. Sta. Elk Mountain	23 34	29N 30N	8E 11E	4000 6900
15B6 16B2	I	Below Roland Copper Ridge	34 6 & 7	47N 50N	6E 1W	3770 4800	15	5C11a I	Falls Point	10	31N	9E	4600
16B3M 15B13A	I	Fourth of July Summit Granite Peak	6	49N 42N	1W 8E	3100 6000		5C12p I 5C2AP I	Fenn Ranger Station Fish Lake Airstrip	23 35	32N 35N	7E 11E	1580 5000
16B5A	I	Kellogg Peak	19	48N	3E	5560		5C8m I 5C9 I	Fohl Forest	16 1	36 N 32 N	5 E 3 W	3450 4550
15B2MS 16B1	I		4 32	47N 51N	6E 1W	5250 3400	15	5B3A I	Forty-nine Meadows Goat Lake	6	43N	5 E	5000
15B4A 16A4AS	I	_	24 5	43 N 54 N	10 E 2 E	6150 5110		4C9A I 5D14p I	Green Mountain	4 15	38N 28N	13E 11E	6600 7000
15B12A	I	Outlaw Creek	19	44N	5 E	3750	16	6C13 I 5C6APR I	Greer Summit Hemlock Butte	13	35 N 36 N	2E 7E	3000 5500
15B15a 15B5A	I		15 26	44N 47N	9 E 6 E	5735 5200	15	5C8s M	Hoodoo Basin	17	14N	27W	6000
16C1S 15B9A		Sherwin	28 & 33 28	42 N 49 N	1E 5E	3200 5600		5C1 M 5C14 I	Hoodoo Creek Horse Creek #1	16 25	14N 31N	27W 8E	5900 5500
15B16a	-	Timber Camp Flat	23	44N	9E	4300		5C15 I 5D21a I	Horse Creek #4 Horse Point	5 4	30 N 30 N	9E 9E	5400 5700
			D A CINI				15	5D22ap I	Indian Hill	30	31N	10 E	6100
		LOWER SNAKE	BASIN				1	4D3 I 4C5M I	Kit Carson Pasture Lolo Pass	4 16	27N 38N	16E 15E	5020 5230
		PALOUSE RIVER					1	5B14AS I 5D15p I	Lost Lake Lower Horse Creek	16 28	43N 31N	4E 9E	6000 4100
							16	5D7 <b>I</b>	Lower Snowhaven	9	29N	3 E	5250
16C6 16C3	I		24 13	40 N 40 N	5W 5W	3340 4050	1	6C8 I 5D16p I	McCann Meadow Creek Guard Station	25 5	33N 29N	3W 10E	4300
16C5	I	Howard Creek	14	40 N	5W	3450	15	5D17a I 5C12M I	Meadow Creek Lookout Midway	25 14	29N 35N	11E 2E	7000 2200
16C2 16C7SR	I		18 16	40 N 40 N	4W 4W	4400 4600	15	5D18ps I	Mill Site	22	28 N	11E	6700
16C4P	Ι	West Twin	14	40 N	5W	4250		5D6AP I 4D1 M	Mountain Meadows Nez Perce Pass	9 25	27N 1S	10E 24W	6300 6575
								5D4R I 5C5 I	Orogrande Mountain Pierce Kanger Station	24 2	27N 36N	6 E 5 E	7800 3170
							14	4C6 I	Powell Ranger Station	33	37N	14E	4230
								5D19p I 5D2 <b>0</b> a I	Red River Ranger Station Sable Hill	4 14	27N 29N	9E 10E	43 <b>40</b> 6000
							14	4C4 I	Savage Pass	18	36N	15E 6E	6600 4600
		LEGEND					15	5C13p I	Shanghai Summit Slim's Camp	7 11	37N 31N	9E	1850
	Nυ	mbering System (exampl	le)					6C10 I 6D4 I	Sweeney Upper Snowhaven	1 8 & 9	32N 29N	3W : 3E	5600
10]7	SN	IOW COURSE ONLY.							offer anomicion				
10J7P		IOW COURSE AND PRECIPITATION GAG							SALMON RIVER				
10J7M 10J7A		IOW COURSE AND SOIL MOISTURE STATION COURSE AND AERIAL MARKER.	IION.				13	3E19MA I	Above Gilmore	13	13N	26 E	8200
10J7s		RESSURE PILLOW ONLY.					13	3E21A I	Aspen-Hall Pass	6	16 N	28E	8110
10J7S	SN	OW COURSE AND PRESSURE PILLOW.						5E2 I 3E8a I	Big Creek Summit Borah	24 21	15N 10N	5E 23E	6600 8250
10J7MA 10J7MP		IOW COURSE, SOIL MOISTURE STATION						6D6 I 6D2 I	Brundage Mountain Chapman Creek	6 16	19N 29N	3E 2E	756 <b>0</b> 42 <b>15</b>
10J7mP		NOW COURSE, SOIL MOISTURE STATION DIL MOISTURE STATION ONLY	AND PRECIPITA	ATION G	AGE.		13	3E17A I	Copes Camp	36	18N	22E	7500
10J7a		ERIAL MARKER ONLY.						3E25a I 3D17a I	Doublespring Pass Gertson Creek	3 22	10 N 22 N	22E 23E	8400 8050
10J7p	ST	ORAGE PRECIPITATION GAGE ONLY.						3D2 M 3D9 M	Gibbons Pass Gold Stone	4 11	2S 8S	19W 16W	7100 8100
							13	3E20A I	Hall Creek	1	16 N	27E	7560
							1	6D3 I 4E6a I	Johns Creek Keystone	9 15	29N 13N	2E 18E	3805 7700
							13	3E24ap I	Leatherman Pass	20	9N	23E	9800
								3E1 M 3E23 M	Lemhi Pass Lemhi Ridge	9 4	10 S 10 S	15W 15W	7480 8100
							13	3E18MA I	Meadow Lake	24	13N	26E	9100
							13	3D16 I	Mill Creek Summit Moose Creek	8 22 & 26	13N 27N	17E 21E	8870 6200
								4E4 I 4E2 I	Morgan Creek Redfish Lake	32 3	18N 9N	19E 13E	7580 6600
							13	3E16A I	Schwartz Lake	34	18N	22E	8500
								3E2 M 4E3a I	Trail Creek Twin Peaks	15 28		15W 17E	7090 10300
							14	4F4AP I	Vienna Mine	32	6 N	14E	8900
								6D5 I 4D4 I	Whitebird Summit Williams Creek Summit	17 34	29N 21N	2E 20 E	4390 7800

APPENDIX

CURRENT INFORMATION

PAST RECORD

DRAINAGE BASIN and SNOW COURSE

NAME

NO. ELEVATION

CURRENT INFORMATION

PAST RECORD

WATER CONTENT (Inches)

CONTENT (Inches)

LAST YEAR AVERAGE b

#### UPPER COLUMBIA RIVER BASIN

	OLLEN	COLUMBI	A KIVE	V DYOTH			
PEND OREILLE - PRIEST	RIVER						
Benton Meadow	16A2	2344	2/1	33	8.3	10.4	5 1
. 0							
•							
Jenweitzer Klage	10215	0100	1/ 50	05	23.7	52.0	
SPOKANE RIVER							
Above Burke	15B8	4100	1/21	<b>3</b> 8	9.1		
Above Burke (SP)	15B8	4100	1/21		6.9		
Above Burke (SP)	15B8	4100	2/2		10.2		
Fourth of July Summit	16B3	3100	2/2	32	7.5	14.0	6.4*
Lookout	15B2	5250	2/2	88	24.5	38.7	25.0
Lookout (SP)	15B2	5250	2/2		18.4		
Mosquito Ridge	16A4	5110	1/30	70	22.0		
Mosquito Ridge (SP)	16A4	5110	1/30		17.7		
Sherwin	16C1	3200	1/31	32	9.3	16.2	10.4*
Sherwin (SP)	16C1	3200	1/31		9.0		
#Mosquito Ridge (SP) 16A4 5110 1/30 17.7 Schweitzer Bowl 16A6 4500 1/30 71 21.0 28.8 Schweitzer Ridge 16A5 6100 1/30 83 23.7 52.0 SPOKANE RIVER  Above Burke 15B8 4100 1/21 38 9.1 Above Burke (SP) 15B8 4100 1/21 6.9 Above Burke (SP) 15B8 4100 2/2 10.2 Fourth of July Summit 16B3 3100 2/2 32 7.5 14.0 6.4 Lookout 15B2 5250 2/2 88 24.5 38.7 25.0 Lookout (SP) 15B2 5250 2/2 18.4 Mosquito Ridge 16A4 5110 1/30 70 22.0 Mosquito Ridge (SP) 16A4 5110 1/30 70 22.0 Sherwin 16C1 3200 1/31 32 9.3 16.2 10.4 Sherwin (SP) 16C1 3200 1/31 9.0 LOWER SNAKE RIVER BASIN  PALOUSE RIVER  Crumarine Creek 16C6 3340 1/30 20 5.6 14.0 5.9 East Twin 16C3 4050 1/30 30 8.8 18.0 10.5 Moscow Mountain 16C2 4400 1/30 41 13.5 19.6 12.2 Moscow Mountain 16C2 4400 1/30 41 13.5 19.6 12.2 West Twin 16C4 4250 1/30 25 7.8 8.4 CLEARWATER RIVER  Above Greer 16C11 1240 1/29 0 0.0 3.4 Anderson Butte (A) 15D7 6800 1/30 85 20.4 20.8 Buck Meadows 15D5 5600 1/29 62 17.2 25.0							
PALOUSE RIVER							
Crumarine Creek	16.06	3340	1/30	20	5.6	14.0	5.9*
							10.5*
							4.8*
							12.2*
							8.4*
CLEARWATER RIVER							
Above Greer	16 C11	1240	1/29	0	0.0	3.4	
Anderson Butte (A)	15D7	6800	1/30	85	20.4	20.8	
Anderson Ridge (A)	15D8	5400	1/30	60	16.2	17.6	
Buck Meadows	15D5	5600	1/29	62	17.2	25.0	
Cayuse Airstrip	15C3	3700	1/30	32	8.8	16.8	7.6*
Coolwater Mountain (R)	15C7	6200	2/1		20.4	17.2	
Coolwater Mtn. (SP)	15C7	6200	2/1		17.4	15.9	
	15D10	6000	1/30	75	16.2	16.4	
	16C16	5140	1/29	37	9.7	10.9	
Crater Meadows (A)	15C9	6100	1/30	93		34.0	
* *			1/28	32			
Disgrace Butte (A)	15D11	6600	1/29	69	17.2	25.2	
Elk Mountain	15D13	6900	1/29	109	27.2	45.0	

<sup>(</sup>b) 1953-67, 15 year period. \*Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW			CU	RRENT INFOR	MATION	PAST RE	CORD
DRAINAGE BASIN and SNOW	COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONTE	NT (Inches)
NAME	NO.	ELEVATION	SURVEY	(Inches)	CONTENT (Inches)	LAST YEAR	AVERAGE 6
					<u> </u>	<u> </u>	
Falls Point (A)	15C11	4600	1/30	45	12.2	16.5	
Fish Lake Airstrip	15C2	5000	1/30	90	27.0	42.8	25.1*
Forest	16C9	4550	1/27	16	3.2	6.7	5.3*
Greer Summit	16C13	3000	1/29	T	T	4.2	J.J.
Hemlock Butte	16Cf3	5500	1/30	100	28.8	42.5	34.2*
Hemlock Butte (R)	16C6	5500	2/1		34.6	43.3	34.20
Hemlock Butte (SP)	16C6	5500	2/1		33.5	44.3	
#Hoodoo Basin Mont.	15 C8	6000	1/29	118	33.1	44.7	
#Hoodoo Basin (SP) Mont		6000	2/1		32.6	44./	
		5900	1/29				
	15C1			116	31.8	41.8	
Horse Creek #1 (A)	15C14	5500	1/30	60	16.2	28.5	
Horse Creek #4 (A)	15C15	5400	1/30	69	18.6	20.0	
Horse Point (A)	15D21	5700	1/30	51	14.8	15.4	
Indian Hill (A)	15D22	6100	1/30	50	13.5	9.7	
Lolo Pass	14C5	5230	1/29	80	20.5	25.6	
Lower Snowhaven	16D7	5250	1/29	45	12.3	16.1	
McCann	16C8	4300	1/27	10	1.5	6.0	5.1*
Meadow Creek L.O. (A)	15D17	7000	1/29	69	17.2	32.4	
Midway	16C12	2200	1/29	T	T	4.6	
Mill Site	15D18	6700	1/29	71	17.0	26.0	
Mountain Meadows	15D6	6300	1/29	60	14.8	20.0	
Orogrande Mtn. (R)	15D4	7800	2/1		25.9	32.9	
Pierce Rgr. Sta.	15C5	3170	1/28	18	4.8	11.8	8.5
Powell Rgr. Sta.	14C6	4230	1/28	31	8.2	12.8	
Sable Hill (A)	15D20	6000	1/30	45	12.5	14.8	
Savage Pass	14C4	6600	1/30	62	15.8	23.3	
Shanghai Summit (A)	15C4	4600	1/30	59	16.2	29.3	
Sweeney	16C10	4435	1/27	11	1.8	6.0	5.0*
Upper Snowhaven	16D4	5600	1/29	46	13.8	17.2	
SALMON RIVER							
Big Creek Summit	15E2	6600	1/31	106	31.4	35.0	22.2
#Boulder Creek	16D1	5500	1/29	79	21.6	35.9 23.3	23.2
Brundage Mountain	16D1	7560	1/29	144			15.9*
Chapman Creek	16D2	4215	1/30	3	42.6	45.8	2 04
#Deadwood Summit (A)	15 E4	7000	1/30	126	0.6	5.3	2.8*
#Galena Summit	14F12	8795	1/30		41.2	0/ 7	28.8*
#Gibbons Pass Mont.				78	16.4	24.7	15.3
Johns Creek	13D2	7100	1/30	60	15.1	22.0	14.4
Mill Creek Summit	16D3	3805	1/30	1	0.2	4.0	2.0*
Moose Creek	14E1	8870	1/28	58	14.0	25.4	10.0
Morgan Creek	13D16	6200	1/30	48	13.8	15.2	10.9
#Rock Flat Summit	14E4	7580	1/27	38	8.4	14.2	11.1*
#Squaw Flat (A)	16E1	5200	1/29	55	14.9	15.6	11.7
Whitebird Summit	16E5	6230	1/30	67	19.8		
MULTEDITA SAMMIE	16D5	4390	1/30	8	1.7	6.8	4.8*

<sup>(</sup>b) 1953-67, 15 year period. \*Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW		CU	RRENT INFOR	PAST RECORD					
DRAINAGE BASIN and SNO	OW COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONTENT (Inches)			
NAME	NO.	ELEVATION	SURVEY	(Inches)	CONTENT (Inches)	LAST YEAR	AVERAGE b		
Lemhi River									
Above Gilmore	13E19	8200	1/29	28	6.4	10.0	-		
Aspen-Hall Pass	13E21	8110	1/30	30	7.0	9.7			
Copes Camp	13E17	7500	1/30	19	4.1	8.2			
Gertson Creek (A)	13D17	8050	1/29	30	7.0	7.5			
Hall Creek	13E20	7560	1/30	17	4.1	5.6			
Meadow Lake	13E18	9100	1/29	43	11.4	19.9			
Schwartz Lake	13E16	8500	1/30	30	7.6	12.8			

SOIL MOISTURE		PROFILE	(Inches)		SOIL MOISTU	RE (Inches)	
STATION NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
SPOKANE RIVER							
Fourth of July Summit Lookout	3100 5250	48 48	11.6	2/2 2/2	10.2 7.5	10.2 8.5	8.8 8.4
CLEARWATER RIVER							
Brown Midway	3100 2200	36 36	6.7 6.1	1/29 1/29	5.9 5.2	5.6 5.1	5.6 <sup>j</sup> 5.2 <sup>j</sup>
SALMON RIVER							
Mill Creek Summit	8870	48	8.4	1/28	4.4	6.7	6.6
Lemhi River							
Above Gilmore Meadow Lake	8200 9100	60 48	5.4 4.4	1/29 1/29	2.4	4.3	3.0
j January Measurement							

<sup>(</sup>b) 1953-67, 15 year period. \*Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW			CUF	RENT INFOR	MATION	PAST R	ECORD
DRAINAGE BASIN and SNOW	COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONT	ENT (Inches)
NAME	NO.	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	AVERAGE 6

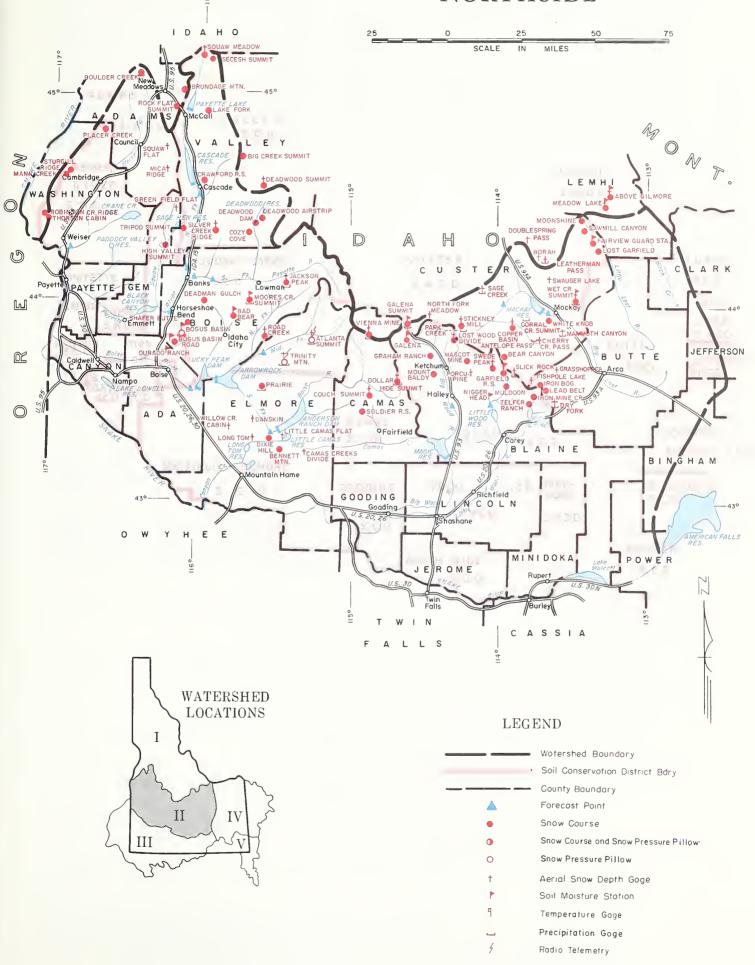
#### MIDDLE SNAKE RIVER BASIN - NORTHSIDE

	MIDDLE SN	AKE KI	VEK BASI	N - NOK	THOIDE		
LITTLE LOST RIVER							
Fairview Guard Sta. Lost Garfield Moonshine Sawmill Canyon Wet Creek Summit	13E5 13E3 13E6 13E4 13E7	6750 6600 7450 6900 7600	1/27 1/27 1/28 1/28 1/29	22 16 31 26 25	4.2 3.0 5.8 5.0 5.2	5.9 4.9 14.0 9.1 17.4	3.2* 2.6* 8.3* 5.8* 7.8*
BIG LOST RIVER							
Bear Canyon Copper Basin Iron Bog Leadbelt White Knob	13F3 13F2 13F11 13F12 13F1	7920 7650 7650 6800 7700	1/31 1/31 1/30 1/30 1/29	46 18 34 19 17	11.4 4.8 7.6 3.9 3.4	25.1 15.3 22.5 18.3 13.2	8.0* 6.2* 5.1*
LITTLE WOOD RIVER							
#Bear Canyon Garfield Rgr. Sta. Muldoon Swede Peak	13F3 13F4 13F5 13F9	7920 6554 6300 7500	1/31 1/26 1/26 1/26	46 26 22 45	11.4 5.4 4.0 9.0	25.1 17.7 13.8 22.5	7.0* 5.5* 10.4*
BIG WOOD RIVER							
#Couch Summit Galena Galena Summit Graham Ranch Mount Baldy Soldier Rgr. Sta.	14F10 14F1 14F12 14F5 14F9 14F11	6950 7300 8795 6200 9000 6100	1/28 1/28 1/28 2/2 1/30 1/28	58 71 78 39 52 49	13.8 15.6 16.4 9.4 11.6 13.2	23.7 22.2 24.7 17.0 24.2 18.9	10.9* 13.3 15.3 9.3 13.8 8.4*
BOISE RIVER							
Atlanta Summit Atlanta Summit (SP) Bad Bear #Bogus Basin Bogus Basin Road Couch Summit Jackson Peak (A) Moores Creek Summit Prairie #Soldier Rgr. Sta. Trinity Mountain Trinity Mountain (SE	15F4 15F2 16F2 16F4 14F10 15E9 15F1 15F6 14F11 15F5	7500 7500 5500 6120 5360 6950 7000 6100 4900 6100 7780 7780	2/2 2/2 1/30 1/30 1/29 1/28 1/30 1/30 1/29 1/28 2/2 2/2	96 94 38 65 23 58 96 93 19 49 107 118	26.3 27.0 12.4 23.0 7.1 13.8 29.8 28.8 6.3 13.2 35.0 37.5	34.4  14.7 26.7 10.6 23.7  31.1 7.6 18.9 43.9	20.7* 9.9* 14.7 4.8* 10.9* 20.3* 20.9 4.7 8.4* 26.4*

<sup>(</sup>b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent.

(R) Radioactive Gage snow-water equivalent.

#### MIDDLE SNAKE RIVER BASIN NORTHSIDE



#### INDEX to SNOW COURSES

NO. 51	TATE	NAME	SEC.	TWP.	RGE.	ELEV.	NO. ST	TATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	ANO I	LONG.					LAT.	AND	LONG	
									BOISE RIVER				
M	ID	DLE SNAKE RI	VER	BAS	IN		ļ						
							15F4APS	I	Atlanta Summit	23	5 N		7500
		NORTHSID	$\mathbf{E}$				15F2M 16F4	I	Bad Bear Bogus Basin Road	35 32	7N 5N	6E	5500
							16F5m	I	Bogus Basin Road	36	5 N	2E	5360 4830
		LITTLE LOST RIVER					14F10A	Ī	Couch Summit	9	2N		6950
13E5M	Ι	Fairview Guard Station	27	12N	26 E	6750	15F10a	I	Danskin	17	1N	7E	
13E3	Ī	Lost-Garfield	3	11N	26 E	6600	16F1	I	Deadman Gulch	29	7N	4E	5600
13E6	Ī	Moonshine	31	13N	26 E	7450	15E9AP	I	Jackson Peak	7	8N		7000
13E4	I	Sawmill Canyon	17	12N	26E	6900	15F1MP	I	Moores Creek Summit	19	7N		6100
13E9a	I	Swauger Lake	26	9 N	24E	9050	15F6P	I	Prairie Road Creek	13 5	2N	7E	4900 5550
13E7MAP	I	Wet Creek Summit	15	8N	25E	7600	15F3A 15F5APS	I	Trinity Mountain	5 7	5N 3N		7780
		BIG LOST RIVER					15F11a	Ī	Willow Creek Cabin	26	1N		4710
		BIO EGGI KIVEK											
13F18p	I	Antelope Pass	7	5N	23E	8800			CANYON CREEK				
13F3	I	Bear Canyon	26	5 N	21E	7920	15F7	I	Bennett Mountain	7	2\$	9E	6650
13F13a	I	Cherry Creek Pass	7 24	5 N 6 N	23E 21E	8900 7650	15F8	ī	Dixie Hill	13	2 S	8E	5230
13F2A 13F19p	I	Copper Basin Corral Creek Summit	25	7N	21E	8550	15F12a	I	Little Camas Flat	21	18	9E	4950
13F20ap	I	Dry Fork	23	3 N	23E	7340	15F13a	I	Long Tom	19	18	8 E	4550
13F8a	Ī	Fishpole Lake	28	4N	22E	9350							
13F7a	I	Grasshopper	15	4N	22E	8400			PAYETTE RIVER				
13F11	I	Iron Bog	23	4N	22E	7650	11-01-0	_		16	F.,		(100
13F12	I		34	4N	23E	6800	16F2MPS	I	Bogus Basin Cozy Cove	16 19	5N 11N	3E 7E	6120 5900
14F3A	I	Lost Wood Divide	19	6N	19E	7900	15E8 15E3	I	Crawford Ranger Station	21	14N	4E	4800
13F17ap	I	-	14 20	6N 7N	23E 18E	8300 8150	15E10	I	Deadwood Airstrip	8	11N	7E	5440
14F15a 14F6p	I	North Fork Meadow Park Creek	18	6N	19E	7685	15 E7	Ī	Deadwood Dam	8	11N	7E	5290
14E5ap	I		12	9N	20E	7800	15 E4A	I	Deadwood Summit	23	14N	7 E	7000
13F14ap	Ī	Slickrock	17	4N	22E	8640	16 E7a	I	Greenfield Flat	1	13N	2 E	7370
14F2A	Ī	Stickney Mill	9	6 N	19E	7500	16 E4	I	High Valley Summit	9	10 N	2 E	5170
13F1	I	White Knob	25	7 N	23E	7700	15 E1	I	Lake Fork	3	18N	4E	6000
		BIG WOOD RIVER					16E1	I	Rock Flat Summit	1 34	18 N 22 N	2E	5200
		BIG WOOD KIVEK					15D1 16F7	I	Secesh Summit Shafer Butte	34 15	22N 5N	4E 3E	6600 7480
15F9a	I	Camas Creeks Divide	11	28	9E	5720	15E5A	I	Silver Creek Ridge	24	12N	5E	5700
15F98 14F8AP	I	Dollarhide Summit	16	3N	15E	8620	15 D2A	Ī	Squaw Meadow	5	21N	4E	5800
14F1M	I	Galena	3	6N	15E	7300	16 E3	I	Tripod Summit	17	11N	3E	5200
14F12MP	Ī		33	7N	15E	8795	İ		•				
14F5	I	Graham Ranch	10	5N	17E	6200			WEISER RIVER				
14F7	I	Mascot Mine	8	4N	20 E	7900	16D1P	I	Boulder Creek	15	20 N	1W	5500
14F9	I	,	26	4N	17E	9000	16E6a	I	Mica Ridge	15	15 N	2E	6800
14F11	Ι	Soldier Ranger Station	19	2N	14E	6100	16E2	I	Placer Creek	15 & 16	17N	3W	6000
		LITTLE WOOD RIVER					16E5a	Ι	Squaw Flat	32	17N	2E	6230
									MANN CREEK				
13F4M	I	0	11	3N	21E	6554	1670	т	Mann Creat	0.0	1 5 57	E 1.7	E000
13F5	I		25	3N	21E	6300	16 E9 16 E8	I	Mann Creek Sturgill Ridge	29 28	15N 15N	5₩ 5₩	5980 6680
14F13m	I	Niggerhead	26	2N	20E	5450	17E1	I	Robinson Creek Ridge	28	14N	6W	6220
14F14a 13F9A	I	Porcupine Swede Peak	30 4	4n 3n	20E 21E	8350 7500	17E2	I	Thorson Cabin	12	14N	6W	5320
13171	-		7	311		. 500							
		FISH CREEK											
13F10	I	Iron Mine Creek	32	3N	23E	6370							
13F6	I	Telfer Ranch	12	2N	22E	6000							

#### LEGEND

#### Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.

			CUI	RRENT INFOR	MATION	PAST R	ECORD
DRAINAGE BASIN and SNOW	COURSE		DATE OF	SNOW DEPTH	WATER CONTENT		ENT (Inches)
HAME	NO.	ELEVATION	SURVEY	(Inches)	(inches)	LAST YEAR	AVERAGE 0
PAYETTE RIVER							
0	15E2	6600	1/31	106	31.4	35.9	23.2
Bogus Basin	16F2	6120	1/30	65	23.0	26.7	14.7
9	16D6	7560	1/29	144	42.6	45.8	
-	15E8	5900	1/27	57	18.0	21.2	10.7
9	15 E3	4800	1/28	24	7.4	10.9	5.6*
~	15E10	5440	1/27	52	17.4	16.6	10.3%
	15 E 7	5290	1/27	54	17.1	17.7	11.0
	15E4	7000	1/30	126	41.2		28.8
	16 E7	7370	1/30	115	34.0		
	15E9	7000	1/30	96	29.8		20.3*
9 , ,	16 E6 16 E1	6800 5200	1/30	100	29.6		
	16 E 5	6230	1/29 1/30	55 6.7	14.9	15.6	11.7
	1053	0230	1/30	67	19.8		
VEISER RIVER							
Boulder Creek	16 D1	5500	1/29	79	21.6	23.3	15.9*
Mica Ridge (A)	16 E6	6800	1/30	100	29.6		
Squaw Flat (A)	16E5	6230	1/30	67	19.8		
MANN CREEK							
MANN CREEK  Robinson Creek Ridge(A)	17E1	6220	1/30	51	13.9		
Robinson Creek Ridge(A)	17E1 16E8	6220 6680	1/30 1/30	51 96	13.9 28.4		
Robinson Creek Ridge(A)		6680		96	28.4	  URE (Inches)	
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE	16 E8	6680	1/30	96	28.4	LAST	2 YEARS
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION NAME		6680	1/30	96	28.4	-	2 YEARS AGO
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE	16 E8	6680	1/30	96	28.4	LAST	i I
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION NAME  LITTLE LOST RIVER	16E8	PROID DEPT	1/30  FILE (Inches  CAPACI	96 TY DATE	28.4  SOIL MOIST  THIS  YEAR	LAST YEAR	I.
Robinson Creek Ridge(A) Sturgill Ridge (A) DIL MOISTURE  STATION NAME	16E8	00 42	1/30  FILE (Inches  H CAPACIT  7.	96 TY DATE 6 1/27	28.4  SOIL MOIST  THIS YEAR  7.5	LAST YEAR	AGO
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit	16 E8 ELEVATI	0680  PROI DEPT  00 42	1/30  FILE (Inches  H CAPACIT  7.	96 TY DATE 6 1/27	28.4  SOIL MOIST  THIS YEAR  7.5	LAST YEAR	AGO
Robinson Creek Ridge(A) Sturgill Ridge (A)  OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station	16 E8 ELEVATI	0680  PROI DEPT  00 42	1/30  FILE (Inches  H CAPACIT  7.	96 TY DATE 6 1/27	28.4  SOIL MOIST  THIS YEAR  7.5	LAST YEAR	AGO
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit	16 E8 ELEVATI	PROIDEPT  50 42 75 48	1/30  FILE (Inches  H CAPACIT  7. 17.	96  TY DATE  6 1/27 1 1/29	28.4  SOIL MOIST  THIS YEAR  7.5	LAST YEAR	AGO
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit  LITTLE WOOD RIVER	585 817	PROIDEPT  50 42 75 48	1/30  FILE (Inches  H CAPACIT  7. 17.	96  TY DATE  6 1/27 1 1/29	28.4  SOIL MOIST  THIS YEAR  7.5 12.4	8.5 16.4	 14.5*
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit  LITTLE WOOD RIVER  Garfield R. S.	585 817	PROIDEPT  ON DEPT  ON 42  48  64 36	1/30  FILE (Inches  H CAPACIT  7. 17.	96  TY DATE  6 1/27 1 1/29  2 1/26	28.4  SOIL MOIST  THIS YEAR  7.5 12.4	8.5 16.4	14.5* 2.7
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit  LITTLE WOOD RIVER  Garfield R. S.  BIG WOOD RIVER	585 817	PROD DEPT 50 42 48 64 36	1/30  FILE (Inches  H CAPACIT  7. 17.	96  TY DATE  6 1/27 1 1/29  2 1/26  1 1/28	28.4  SOIL MOIST  THIS YEAR  7.5 12.4	8.5 16.4	 14.5* 2.7
Robinson Creek Ridge(A) Sturgill Ridge (A)  OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit  LITTLE WOOD RIVER  Garfield R. S.  BIG WOOD RIVER  Galena	585 817 655	PROD DEPT 50 42 48 64 36	1/30  FILE (Inches  H CAPACIT  7. 17.	96  TY DATE  6 1/27 1 1/29  2 1/26  1 1/28	28.4  SOIL MOIST  THIS YEAR  7.5 12.4  3.0	8.5 16.4 4.0	 14.5* 2.7
Robinson Creek Ridge(A) Sturgill Ridge (A)  OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit  LITTLE WOOD RIVER  Garfield R. S.  BIG WOOD RIVER  Galena Galena Summit	585 817 655	PROD DEPT 30 42 75 48 34 36 90 48 95 48	1/30  FILE (Inches  H CAPACIT  7. 17.	96  TY DATE  6 1/27 1 1/29  2 1/26  1 1/28 8 1/28	28.4  SOIL MOIST  THIS YEAR  7.5 12.4  3.0  4.2 1.7	8.5 16.4 4.0 8.7 3.0*	2.7 8.3 1.8
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit  LITTLE WOOD RIVER  Garfield R. S  BIG WOOD RIVER  Galena Galena Summit  BOISE RIVER	585 817 655 730 879	PROIDEPT  ON DEPT  ON DEPT  ON 42  48  ON 48  ON 48  ON 48  ON 48  ON 48  ON 72	1/30  FILE (Inches  H CAPACIT  7. 17.  5.	96  TY DATE  6 1/27 1 1/29  2 1/26  1 1/28 8 1/28 3 1/30	28.4  SOIL MOIST  THIS YEAR  7.5 12.4  3.0  4.2 1.7	8.5 16.4 4.0 8.7 3.0*	2.7 8.3 1.8
Robinson Creek Ridge(A) Sturgill Ridge (A) OIL MOISTURE  STATION  NAME  LITTLE LOST RIVER  Fairview Guard Station Wet Creek Summit  LITTLE WOOD RIVER  Garfield R. S.  BIG WOOD RIVER  Galena Galena Summit  BOISE RIVER  Bad Bear	585 817 655 730 879	PROD DEPT 30 42 48 34 36 30 48 30 72 48	1/30  FILE (Inches  H CAPACIT  7. 17.  5.  6. 13.	96  1	28.4  SOIL MOIST  THIS YEAR  7.5 12.4  3.0  4.2 1.7	8.5 16.4 4.0 8.7 3.0*	2.7 8.3 1.8

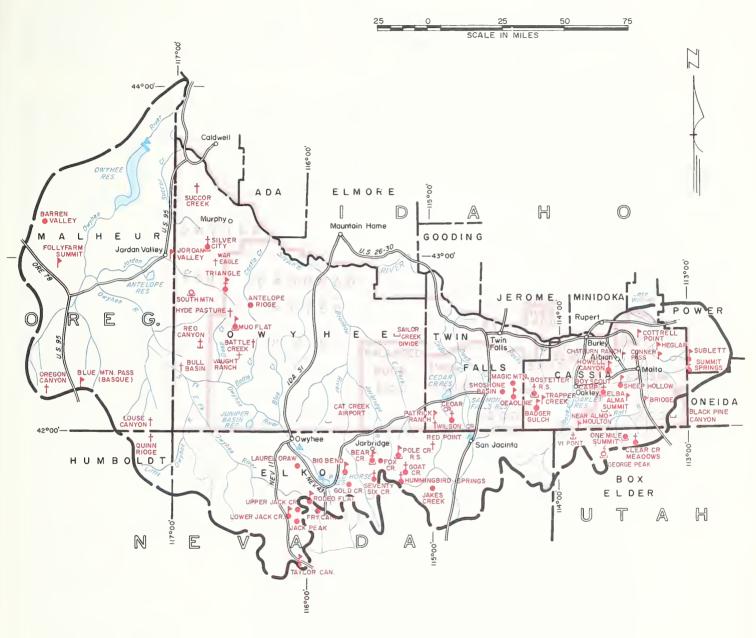
<sup>(</sup>b) 1953-67, 15 year period. \*Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

vi APPENDIX

SNOW			CUI	RRENT INFOR	PAST RECORD					
DRAINAGE BASIN and SN	OW COURSE		DATE OF	SNOW DEPTH	WATER CONTENT		WATER CONTENT (Inches)			
NAME	NO.	ELEVATION	SURVEY	(Inches)	(inches)	LAST YEAR	AVERAGE 6			
MTI	DDLE SNAK	E RTVER	BASIN	- SOUTH	STDE					
b b sha d										
RAFT RIVER										
Howell Canyon	13G1	8000	1/28	91	28.5	23.2	15.0*			
Sublett	12G8	6000	1/29	31	10.4	8.4	6.2*			
GOOSE CREEK										
Badger Gulch	14G3	6660	1/30	37	11.8	8.5	6.2*			
SALMON FALLS CREEK										
#Bear Creek (A) Nev	. 15H1	7800	1/29	48	15.2	19.4	11.3*			
Cedar Creek (A)	14G5	7000	1/29	27	8.0	10.4	6.5*			
Deadline	14G4	6900	1/27	70	20.8	16.6	13.8*			
Goat Creek (A) Nev		8800	1/29	45	13.5	10.3				
#Hummingbird Spgs.(A)		8945	1/29	53	17.0	25.0	11.1*			
Nevada	•									
Magic Mountain	14G2	6700	1/27	57	17.1	12.3	10.8*			
#Pole Creek R.S. Nev	. 15H14	8330	2/2	60	16.7	14.2	10.8*			
Red Point (A) Nev	. 15H18	7940	1/29	25	8.0	5.0	6.2*			
Wilson Creek (A)	15G2	7500	1/29	28	9.0	12.4				
BRUNEAU RIVER										
Bear Creek (A) Nev	. 15H1	7800	1/29	48	15.2	19.4	11.3*			
Hummingbird Spgs.(A) Nevada		8945	1/29	53	17.0	25.0	11.1*			
Pole Creek R. S. Nev	. 15H14	8330	2/2	60	16.7	14.2	10.3*			
#Seventy-six Cr.(A)		7100	1/29	42	13.9	14.3	6.1*			
Nevada			•							
OWYHEE RIVER										
Antelope Ridge	16G6	5900	2/3	22	6.6	12.4	3.4*			
Battle Creek (A)	16G9	5700	1/29	9	2.5	5.0	2.8*			
#Bear Creek (A) Nev		7800	1/29	48	15.2	19.4	11.3*			
Bull Basin (A)	16G10	5600	1/29	6	1.8	2.6	0.9*			
Hyde Pasture (A)	16G5	5800	1/29	10	2.8	9.8	3.8*			
Mud Flat	16G7	5500	2/3	22	6.2		3.4*			
Red Canyon (A)	16G11		1/29	35	11.4	10.6				
#Seventy-six Cr. (A)		7100	1/29	37	11.9	14.3	6.1*			
Nevada	1 6 m2	6100	2/2	1.5	15 /		0 0:1			
Silver City South Mountain	16 F3	6400	2/2	45	15.4	10.2	9.2*			
South Mountain (SP)	16G1 16G1	6340	1/30	35	11.4	18.2	7.3			
Succor Creek (A)	16 F6	6340 6100	1/30 1/29	43 12	15.4	4.8	4.4*			
	1010	0.100	1/2/	12	3.2	4.0	مه اسه اس			

<sup>(</sup>b) 1953-67, 15 year period. \*Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## MIDDLE SNAKE RIVER BASIN SOUTHSIDE







#### INDEX to SNOW COURSES

NO.	STA	TE NAME	SEC.	0 R	RGE.	ELEV.	NO.	STAT			TWP. F	GE. E	LEV.
			LAI.	ANO	LUNG.					-71.	AND L	2019 6 .	
1	MII	DDLE SNAKE RI	VER	BA	SIN				BRUNEAU RIVER				
		SOUTHSID					15H1MAP	N	Bear Creek	31	46N	58E	7800
			ш				15G3p	I	Cat Creek Airport	9	16 S	6E	5700
		RAFT RIVER					15H2 15H15A	N N	Fox Creek Hummingbird Springs	33 6	46 N 45 N	58E	6800 8945
13G15p	I	Black Pine Canyon	28	15S	29E	7100	15H14MP	N	Pole Creek Ranger Station	13	45N 46N	60E 59E	8330
13G2AP	I	-	8	14S	24E	7600	15G4p	ï	Sailor Creek Divide	21	105	10E	4350
13G11m	I		7	15S	27E	4750	250.5	_			100	102	1550
13G13m	I	Chatburn Ranch	4	12S	25E	4700			OWYHEE RIVER				
13H2A	U	Clear Creek Meadows	26	14N	14W	9050							
13G6m	I	Conner Pass	35	12S	25E	5700	16G6	Ĺ	Antelope Ridge	20	88	1E	5900
13G7m 13G10m	I	Cottrell Point	24 29	10 S 14 S	25E	4490 5690	18F5	0	Barren Valley	26	17S	38E	4200
13G10m 13H4sp	n T		4	145 13N	25E 14W	9000	16G9a	I	Battle Creek	10	118	1E	5700
13G8m	I	Heglar	19	115	28E	4590	15H4M 17G2m	N	Big Bend Blue Mountain Pass (Basque)	30 ) 4	45N 38S	56E 42E	6700 5290
13G1MP	ī	Howell Canyon	2	138	24E	8000	16G10a	I	Bull Basin	19	12S	42E 5W	5600
13G12m	I	Moulton	27	16 S	23E	5950	18G3m	ō	Folly Farm Summit	8	30S	38E	4450
13G14p	I	Near Almo	35	15S	24E	5200	15H7	N	Fry Canyon	31	43N	54E	6700
13H1P	U	One Mile Summit	19	14N	14W	7330	15H5	N	Gold Creek	31	45N	56E	6600
13G5M	I	Sheep Hollow	4	14S	24E	6200	16G5a	I	Hyde Pasture	SE½ 31	88	2W	5800
12G8M	I	Sublett	8	12S	30E	6000	16H4	N	Jacks Peak	28	42N	53E	8420
12G9A	I	Summit Springs	15	135	30E	5400	17G3m	0	Jordan Valley	2	30 S	46 E	4390
							16H5	N	Laurel Draw	20	45N	53E	6700
		GOOSE - TRAPPER CRI	FFK				17G4a	0	Louse Canyon	27	40S	44 E	6440
							16H1M 16G7MP	И	Lower Jack Creek Mud Flat	18 34	42N 9S	53E	6800 5500
14G3M		Badger Gulch	24		19E	6660	17G5a	0	Oregon Canyon	9	40S	2W 40E	6950
14G1AP	I		35	148	19E	7500	1765a	N	Quinn Ridge	9	47N	40E	6300
14G7m	I	Trapper Creek Vi Pont	2 17	15S 14N	20 E	5300 7670	16Gllap	I	Red Canyon	32	115	4W	6650
13H3ap	U	VI PORT	17	T+M	1/4	7070	15H6M	N	Rodeo Flat	36	43N	53E	6800
		SALMON FALLS CREE	K				16F3AP	I	Silver City	6	58	3W	6400
14G5A	-	0-1 - 0- 1	25	150	100	000	16G1PS	I	South Mountain	35	7S	5W	6340
14G5A 14G4M	I	Cedar Creek	25 25	15S 14S	13 E 18 E	000 6900	16 F6a	I	Succor Creek	25	38	5W	6100
15H13A	N	Deadline Goat Creek	31	46N	60E	8800	15Н9М	N	Taylor Canyon	35	39N	53E	6200
14H1	N	Jakes Creek	6	42N	62E	7000	16G4MA	I	Triangle	N½ 35	7S	3W	5150
14G2	I	Magic Mountain	14	145	18E	ъ́ 700	16H2	N	Upper Jack Creek	9	42N	53E 1W	7250 5950
15G1m	ī	Patrick Ranch	23		12E	5720	16G12a 16G13a	I	Vaught Ranch War Eagle	10 20	11S 5S	3W	7700
15H18a	N	Red Point	15	47N	61E	7940	100138	1	Mar rakte	20	73	5₩	, ,,,,
14G6	I	Shoshone Basin	24	14S	17E	5740							
15G2a	I	Wilson Creek	24	16 S	12E	7500							

#### LEGEND

#### Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10 <b>J</b> 7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.

vii

SNOW			CUF	RRENT INFOR	PAST RECORD		
DRAINAGE BASIN and SNOW	COURSE	COURSE		SNOW DEPTH	WATER	WATER CONT	ENT (Inches)
NAME	NO.	ELEVATION	SURVEY	(Inches)	CONTENT (inches)	LAST YEAR	AVERAGE b
Triangle	16G4	5150	1/29	0	0.0	2.6	0.8*
Vaught Ranch (A)	16G12	5950	1/29	8	2.2	5.9	
War Eagle (A)	16G13	7700	1/29	84	28.5		~ -

SOIL MOISTURE	PROFILE	(Inches)		SOIL MOISTURE (Inches)					
STATION		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO		
NAME	ELEVATION			<u> </u>	ILAK	TEAR	400		
RAFT RIVER									
Conner Pass Howell Canyon Sublett	5700 8000 6000	36 48 36	9.8 11.5 7.0	1/30 1/28 1/29	9.0 7.3 5.7	8.3 7.2 7.3	8.0 <sup>j</sup> 4.9 4.0		
GOOSE CREEK									
Badger Gulch	6660	36	7.0	1/30	6.0	5.8	5.2		
SALMON FALLS CREEK									
Deadline Patrick Ranch Pole Creek R. S.	6900 5720 8330	36 36 48	7.4 7.7 9.7	1/27 2/1 2/2	6.2 6.7 5.2	7.2 6.9 6.2	5.9 4.1 4.5		
OWYHEE RIVER									
Mud Flat	5500	48	12.8	2/3	14.4	10.8*	11.4		
* Fall Measurement j January Measurement									

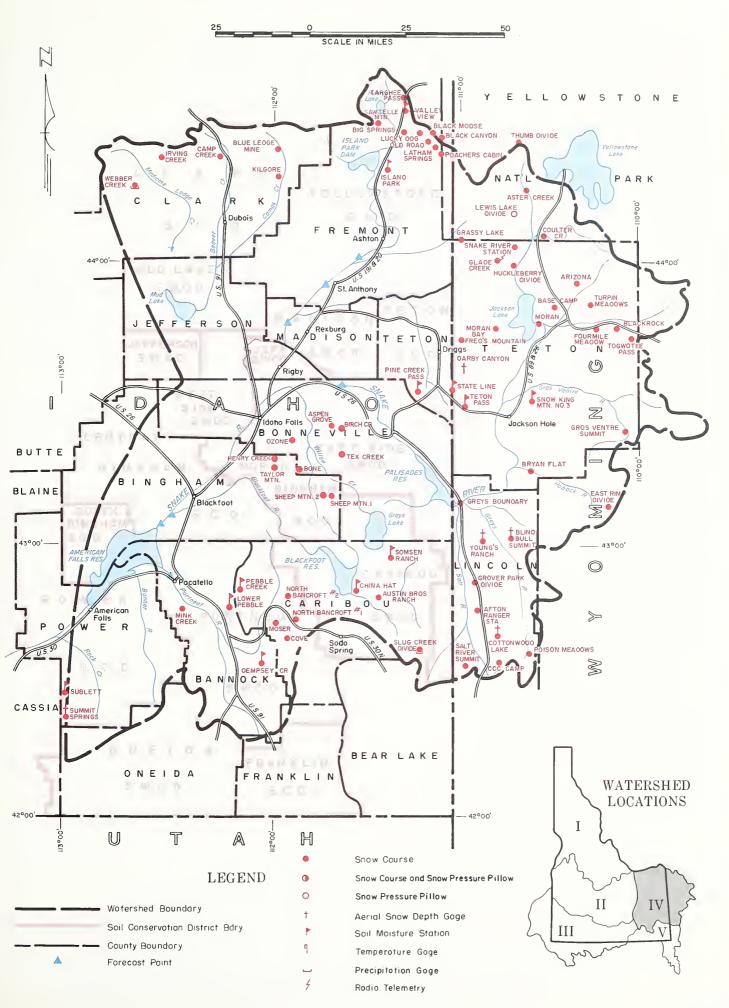
<sup>(</sup>b) 1953-67, 15 year period. \* Not located directly on this drainage. \* Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

viii APPENDIX

SNOW		CURRENT INFORMATION PA									
DRAINAGE BASIN and SNOW	,		DATE OF	SNOW DEPTH	WATER CONTENT	WATER CONT					
NAME	NO.	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	AVERAGE 0				
	UPPE	R SNAKE	RIVER	BASIN							
CAMAS-BEAVER CREEKS											
Camp Creek	12E3	6800	1/28	25	6.2	14.5	6.3				
Kilgore	11E12	6200	1/28	36	9.8	14.8	6.2				
MEDICINE LODGE CREEK											
Irving Creek	12E4	7035	1/29	18	3.6	6.8	3.5*				
Webber Creek	12E5	6700	1/29	16	3.1	7.8	3.2*				
HENRYS FORK RIVER											
Big Springs	11E9	6500	1/28	62	16.3	21.3	13.1				
Black Canyon	11E18	7850	1/29	82	22.8	30.4	23.1*				
Black Moose	11E19 10E15	8125	1/29 1/29	97 102	27.8	39.0	26.8*				
Grassy Lake Wyo. Island Park	10E15	7230 6315	1/29	102 54	27.4 12.6	27.6 19.4	21.9 10.6				
	11E16	7650	1/29	86	23.2	30.8	22.4*				
Latham Springs Lucky Dog	11E16	6900	1/29	74	19.4	25.4	16.8*				
Old Road	11E14	7250	1/29	80	21.6	28.0	17.5*				
Poacher's Cabin	11E17	8000	1/29	79	23.2	29.8	23.8*				
Sawtelle Mountain	11E17	8715	1/28	80	23.8	41.5	25.0"				
Targhee Pass	11E32	7000	1/28	39	8.2	20.7					
Valley View	11E34 11E8	6500	1/28	40	8.6	22.4	10.3				
TETON RIVER											
Daulas Casasas (A)	10001	0250	1/20	6.6	17.0						
Darby Canyon (A) Freds Mountain	10F21 10F22	8250	1/30 1/29	66 86	17.0 22.1	20.0					
Pine Creek Pass	10F22 11F2	8000 6750	1/29	66	16.9	14.4	10.5*				
State Line	11F2 11F1	6400	1/29	47	11.7	11.3	9.0				
Teton Pass	10F13	8500	1/29	110	33.5		19.8				
WILLOW CREEK											
Aspen Grove	11F10	6600	1/30	36	9.8	9.5					
Birch Creek	11F3	6800	1/30	26	7.4	6.9					
Bone	11F8	6200	1/28	25	6.5	8.3					
Sheep Mountain II	11F11	6510	1/28	44	10.9	14.9					
Tex Creek	11F5	6700	1/30	26	5.8	7.8					
SAND CREEK											
Henry Creek	11F6	5650	1/27	8	2.2	2.0					
Taylor Mountain	11F7	6500	1/27	31	9.4	8.4					

<sup>(</sup>b) 1953-67, 15 year period. \*Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

#### UPPER SNAKE RIVER BASIN



#### INDEX to SNOW COURSES

NO.	5	TATE NAME	SEC.		P. RGE.	ELEV.	NO. S	тате	NAME		WP. RGE		ELEV.
			LAT.	ANE	LDNG.						ND LON	ıG.	
					CITAT				TETON RIVER				
	U.	PPER SNAKE F	(I V E K	BF	121N		10F21a	Wy	Darby Canyon	28	43N	118W	8250
						- 1	10 F22	Wy	Freds Mountain	12	44N	118W	8000
		SNAKE RIVER - WY	OMING			- 1	11F2M	ľ	Pine Creek Pass	24	3N -	44 E	6750
10G4	Wv	Afton Ranger Station	30	32N	118W	6200	11F1M	I	State Line	32	3N	46 E	6400
10F1	Wv	Arizona	3	46N	115W	6850	10F13M	Wy	Teton Pass	24	41N	118W	8500
10 E8	Wy	Aster Creek	44° 17'		110° 38'	7700							
10F2	Wy	Base Camp	20		113W	6900			CAMAS - BEAVER	CREEK			
10F7	Wy	Blackrock	4	44N	111W	8600	11E11	I	Blue Ledge Mine	27	13N	38E	6700
10G2A	Wy	Blind Bull	6	34N	115W	8750	12E3	ī	Camp Creek	21	13N	36E	6800
10F14	Wy	Bryan Flat	9	38N 29N	115W 118W	6250 7500	11E12	ī	Kilgore	6	12N	39E	6200
10G7 10G5A	₩y Wv	CCC Camp Cottonwood Lake	25		118W	7500							
10G3A 10E10	₩y	Coulter Creek	440 091	JIM	110° 33'				MEDICINE LODGE	CREEK			
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950	12E4	I	Irving Creek	20	13N	33E	7035
10F6	Wy	Four Mile Meadows	35	45N	112W	7770	12E5	ī	Webber Creek	23	12N	32E	6700
10E13	Wy	Glade Creek	12	48N	116W	7200	1225	-	webber oreen	23			
10F18	Wy	Greys Boundary	33	37N	118W	5800			WILLOW CREEK				
10F19	Wy	Gros Ventre Summit	36	40 N	111W	8750							
10G3	Wy	Grover Park Divide	27	33N	118W	7500	11F10	I	Aspen Grove	35	2 N	41E	6600
10E14	Wy	Huckleberry Divide	32 44° 13'	48N	115W 110° 40'	7300 7900	11F3	I	Birch Creek Bone	36	2N	41E	6800
10E9PS 10F4MP	Wy	Lewis Lake Divide Moran	8 & 17	45N	110 40 114W	6800	11F8 11F4	I	Ozone	29 14	1S 1N	40E	6200
10F4FF 10F3	Wy Wv	Moran Bay	14	45N	116W	6800	11F9	Ī	Sheep Mountain I	33	2S	39E 41E	5800 6450
10F5	Wy	Poison Meadows	29	30N	116W	8500	11F11	ī	Sheep Mountain II	33	2S	41E	6510
10G8P	Wv	Salt River Summit	32	29N	118W	7900	11F5	ī	Tex Creek	6	15	42E	6700
10E12MP	Wy	Snake River Station	9	48N	115W	6780		_		_			0,00
10F20M	Wy	Snow King Mountain #3	4	40 N	117W	7600			SAND CREEK				
10E7	Wy	Thumb Divide	440 221		110° 35'	7900	11F6	1		7	18	39E	5650
10 F9MP	Wy	Togwotee Pass	29		110W	9600	11F7	ī	Henry Creek Taylor Mountain	19	1S	39E	6500
10F5	Wy	Turpin Meadows	14 26	45N 34N	112W 116W	6930 6530	LLEY	-	layici roducalu		13	3,5	0,500
10GlA	Wy	Young's Ranch	20	34N	110 M	6530			BLACKFOOT RIVER				
								_					
		HENRYS FORK RIVE	K				11G3	I	Austin Brothers Ranch	28 17	7S	43E	6450 6300
11E9	I	Big Springs	34	14N	44 E	6500	11G2M 11G5P	I	China Hat Slug Creek Divide	15	7S 10S	42E 44E	7225
11E18	I	Black Canyon	11	13N	45E	7850	11G3F	ī	Somsen Ranch	25	5S	43E	7000
11E19	I	Black Moose	33	14N	45E	8125	HGM	-	Somsen Ranch	23	)3	732	7000
10E15	Wy	Grassy Lake	6	48N	117W	7230			PORTNEUF RIVER				
11E10M	I	Island Park	29	13N	43E 45E	6315 7650							
11E16 11E14	I	Latham Springs Lucky Dog	9 2	13N 13N	45E	6900	11G25	Ţ	Cove	21 17	9S 10S	39E 38E	5525 6280
11E14 11E15	ī	Old Road	12	13N	44E	7250	12G5 12G6M	I	Dempsey Creek Lower Pebble	7	8S	38E	5800
11E17	ī	Poacher's Cabin	11	13N	45E	8000	12G6M 12G1	I	Mink Creek	33	7S	34E	6300
11E32	ī	Sawtelle Mountair	7	14N	43E	8715	11G24	Ī	Moser	20	88	39E	5950
11E34	I	Targhee Pass	32	16N	44E	7000	11G23	Ī	North Bancroft #1	15	88	39E	5460
11E8M	I	Valley View	7	15N	44F	6500	11G22	Ī	North Bancroft #2	27	7S	39E	5430
							12G2M	I	Pebble Creek	34	7S	37E	6550
						1							

#### LEGEND

#### Numbering System (exomple)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.

SNOW		1	CUI	RRENT INFOR	MATION	PAST RECORD		
DRAINAGE BASIN and SNOW	COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONT	ENT (Inches)	
NAME	NO.	ELEVATION	SURVEY	(Inches)	CONTENT (Inches)	LAST YEAR	AVERAGE b	
BLACKFOOT RIVER								
Austin Bros. Ranch	11G3	6450	1/30	25	6.6	7.0	5.1*	
China Hat	11G2	6300	1/30	18	5.2	4.4	4.2*	
Slug Creek Divide	11G5	7225	1/27	45	12.4	12.5	9.9*	
Somsen Ranch	11G1	7000	1/30	47	12.9	12.1	7.5*	
PORTNEUF RIVER								
Cove	11G25	5525	1/29	7	1.9	3.1		
Dempsey Creek	12G5	6280	1/28	35	9.0	9.4	6.5*	
Lower Pebble	12G6	5800	1/29	31	8.8	14.0		
Mink Creek	12G1	6300	1/27	42	11.6	14.8	8.9*	
Moser	11G24	5950	1/29	24	6.9	6.2		
North Bancroft #1	11G23	5460	1/29	8	2.4	2.1		
North Bancroft #2	11G22	5430	1/29	2	0.5	1.1		
Pebble Creek	12G2	65 <b>50</b>	1/28	45	12.3	14.4	8.6*	

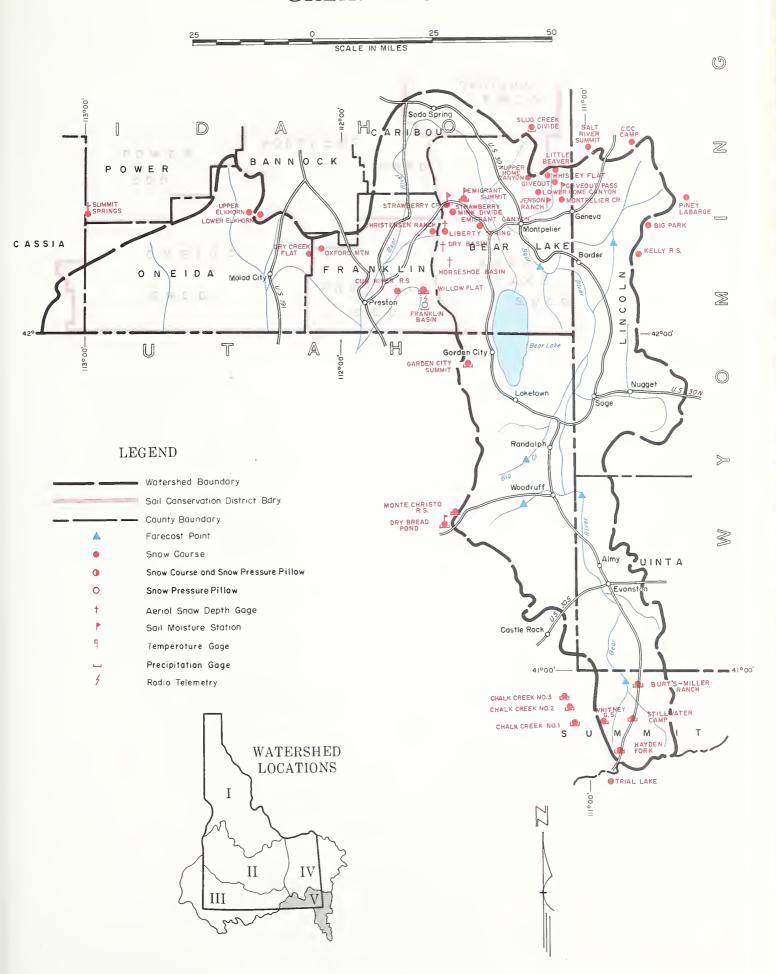
SOIL MOISTURE		PROFILE	(Inches)		SOIL MOISTU	RE (Inches)	
STATION NAME	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO	
HENRYS FORK RIVER							
Island Park	6315	48	9.9	1/28	7.6	9.2	8.5
TETON RIVER		:					
Pine Creek Pass State Line Teton Pass	6750 6400 8500	48 48 48	13.3 14.8 10.5	1/29	11.3 11.2 7.1	13.2 <sup>j</sup> 13.0 <sup>j</sup> 8.1 <sup>j</sup>	13.2
PORTNEUF RIVER							
Lower Dempsey Lower Pebble Pebble Creek j January Measurement	5210 5800 6550	48 36 48	18.7 7.6 7.2	1/28 1/29 1/28	17.4 4.6 4.0	18.8 8.5 6.4	18.3 6.9 4.0

<sup>(</sup>b) 1953-67, 15 year period. "Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW				_	CURRENT INFORMATION				PAST RECORD		
DRAINAGE BASIN and SNOW	COURSE					OW DEPTH	WATER CONTENT		ATER CONTER		
NAME	NO.	ELEV	ATION	SUF	RVEY	(Inches)	(Inches)		AST YEAR A	VERAGE 6	
		G	REA1	ВА	SIN						
		_									
BEAR RIVER											
Endonos & Commit	1106	72	50	1 /	27	67	19.4	·.	20.4	14.2*	
Emigrant Summit Emigration Canyon					27	32	9.5		8.1	6.4*	
Emigration Canyon 11G7 0500				-/	-,	32	,,,		0.1	0,4"	
Montpelier Creek											
				- 1							
Giveout	11G16 6840 11G20 6970			1/28		37	9.3		8.8	7.7*	
Little Beaver	11G20			1/28 1/29		45 43	11.0		11.6	9.8*	
Lower Home Canyon	11G27 11G18		00 70			48 24	11.3		11.4 6.6	 5.3*	
Montpelier Creek Upper Home Canyon				1/28 1/29		73	18.6		18.4	J.J^	
Whiskey Flat	11G21	11G26 8500 11G21 6985		1/29		25	6.0		7.8	6.2*	
WILLSREY Flac	11021	0,7	05	Ι/	20	23	0.0		7.0	0.2	
Mink Creek											
Christensen Ranch	11G11	56	00	1/	29	19	5.	1	5.2	5.6*	
Dry Basin (A)	11G14 7900			1/31		77	22.3				
#Emigrant Summit	11G6 7350		50	1/27		67	19.4		20.4	14.2*	
Horseshoe Basin (A)	11G15 8000		00	•		55	16.0	)			
Liberty Spring (A)	11G13 8600		00	0 1/3		87	25.2	2			
Strawberry Creek	11G9			1/	30	22	6.3	1	6.9	6.9*	
Strawberry Mink Divide	11G10	11G10 68		1/	30	52	15.8	3	15.4	13.0*	
Cub River											
		- 4		- 1							
Cub River R. S.	11G12 5400			1/29		23	6.4		4.7	5.7*	
Willow Flat	11G4 6100		.00	1/29		31	9.7	/	10.2	9.4*	
MALAD RIVER											
Dry Creek Flat	12G4	63	50	1 /	20	25	6.0	1	5.6	4.5*	
Lower Daniels	12G4 6350 11G12 6400		_	1/28 1/26		12	2.6				
Lower Elkhorn				1/27		46	12.		16.4		
Oxford Mountain				•		36	9.0		8.6	5.6*	
Upper Daniels	11G13 7200			1/26		15	4.				
Upper Elkhorn	12G10	71	.00	1/	27	60	16.0		17.0		
SOIL MOISTURE PROFILE (Inches) SOIL MOISTURE (Inches)											
STATION			DEF	тн	CAPACITY	DAT	Т	HIS	LAST	2 YEARS	
NAME	ELE	ATION			- CAI ACIT I	J	Y	EAR	YEAR	AGO	
BEAR RIVER	ĺ	,	ĺ								
Emigrant Summit	The state of the s		3	6	8.2	2 1/27	, ,	. 1	4.1 <sup>j</sup>	2 5	
Strawberry Creek	1	1 1		8	12.7			.3	12.4	2.5	
Montrolies					,					4.0	
Montpelier Creek											
		30		9.4	1 '		.2	4.0 <sup>J</sup>	2.5		
Jenson Ranch 6580 j January Measurement			48	5	18.7	1/28	10	.0	8.2	6.2	
J January Heasurement			L								

<sup>(</sup>b) 1953-67, 15 year period. \*Not located directly on this drainage. \*Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

#### GREAT BASIN



#### INDEX to SNOW COURSES

NO. STATE NAME SEC. TWP. RGE. EL
OR
LAT. AND LONG.

#### GREAT BASIN

#### BEAR RIVER

10G11 11H13MP 11G7 11H7P 10J6P 10J7P 10G12 11H12P 10G10 10J17P 10J28P	Wy U I U U Wy U Wy U	Big Park Dry Bread Pond Emigration Canyon (mouth) Garden City Summit Burt's-Miller Ranch Hayden Fork Kelly Ranger Station Monte Cristo R. S. Piney LaBarge Stillwater Camp Whitney G. S.	7 19 24 35 19 1 13 3 19 32 4	27N 8N 12S 14N 3N 1S 26N 8N 29N 2N 1N	117W 4E 42E 4E 10E 9E 118W 4E 114W 10E 9E	8700 8230 6500 7600 7900 9300 8200 8960 8820 8550 9300
		MONTPELIER CREEK				
11G16 11G17m 11G19m 11G20 11G'27 11G18 11G26 11G21	I I I I I I	Giveout Giveout Pass Jenson Ranch Little Beaver Lower Homme Canyon Montpelier Creek Upper Home Canyon Whiskey Flat	35 2 15 26 17 22 31 26	11s 12s 12s 11 <u>s</u> 12s 12s 11s	45E 45E 45E 45E 45E 45E 45E 45E	6840 7025 6580 6970 7500 6570 8500 6985
		MINK CREEK				
11G11 11G14a 11G6MP 11G15a 11G13A 11G9M 11G10	I I I I I I	Christensen Ranch Dry Basin Emigrant Summit Horseshoe Basin Liberty Spring Strawberry Creek Strawberry Mink Divide	27 30 21 31 7 9	13S 13S 12S 13S 13S 13S	41E 42E 42E 42E 42E 41E 41E	5600 7900 7350 8000 8600 5800 6800
		CUB RIVER				
11G12 11G8S 11G4P	I I I	Cub River Ranger Station Franklin Basin Willow Flat	5 1 2	15 S 16 S 15 S	41E 41E 41E	5400 8 <b>0</b> 00 6100
		MALAD RIVER				
12G4 12G11 12G3 12G10	I I I	Dry Creek Flat Lower Elkhorn Oxford Mountain Upper Elkhorn	31 30 32 25	13S 12S 13S 12S	37E 36E 37E 35E	6350 6850 6800 7100

#### LEGEND

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### Agencies and Organizations Cooperating in Idaho Snow Surveys

#### GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

#### States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

#### Federal:

- U. S. Army Engineers
- U. S. Department of Agriculture
  Forest Service
  Agricultural Research Service
- U. S. Department of Commerce Environmental Sciences Service Administration, Weather Bureau
- U. S. Department of the Interior
  Bonneville Power Administration
  Bureau of Reclamation
  Fish and Wildlife Service
  Water Resources Division, Geological Survey
  Indian Service
  National Park Service
  Bureau of Land Management

#### PUBLIC UTILITIES

The Montana Power Company Washington Water Power Company Idaho Power Company Utah Power and Light Company

#### ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

#### PRIVATE CORPORATIONS

Amalgamated Sugar Company

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# COOPERATIVE SNOW SURVEYS

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